



A.D. 1865, 5th OCTOBER. N° 2555.

S P E C I F I C A T I O N

OF

WILLIAM ROBERT BARKER.

APPARATUS FOR ADMINISTERING
INJECTIONS, &c.

LONDON:

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1866.



A.D. 1865, 5th OCTOBER. N° 2555.

Apparatus for Administering Injections, &c.

LETTERS PATENT to William Robert Barker, of New Bond Street, in the County of Middlesex, for the Invention of "IMPROVEMENTS IN APPARATUS FOR ADMINISTERING INJECTIONS AND DOUCHES TO THE HUMAN BODY."

Sealed the 3rd April 1866, and dated the 5th October 1865.

PROVISIONAL SPECIFICATION left by the said William Robert Barker at the Office of the Commissioners of Patents, with his Petition, on the 5th October 1865.

I, WILLIAM ROBERT BARKER, of New Bond Street, in the County of Middlesex, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN APPARATUS FOR ADMINISTERING INJECTIONS AND DOUCHES TO THE HUMAN BODY," to be as follows:—

This Invention relates to improvements in the construction of portable apparatus for the purpose of administering injections, enemas, and douches to various parts of the human body.

The apparatus consists of a flexible tube of india-rubber or other suitable material, having an ivory or bone injecting or inserting tube at its extremity. The flexible tube is provided at a convenient distance from the injecting piece with a pump composed of an india-rubber receptacle, fitted to the flexible tube by means of metal flanges, within which non-return or clack valves are

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set. Towards the other end of the tube a nozzle is attached, having a milled-
 edged flange to enable the operator to turn it; below this flange is a hollow
 stopper having a projection or clutch on its periphery, below which the tube
 continues, and is terminated by a hollow metallic inlet tube. The last portion
 of the flexible tube, flange, and stopper is to be applied to a flexible water- 5
 proof bag containing the liquid to be used as an injection, enema, or douche.
 This bag is provided at the mouth with a metallic neck, into which the
 stopper fits, the tube descending to the bottom of the bag. The metallic
 neck has a horizontal slot or groove cut therein for the projecting clutch to
 turn in, and so secure the tube to the bag, when by compressing the pump 10
 with the hand the operator is enabled to draw the liquid from the bag and
 force it through the bone or ivory injecting tube to the body of the patient.
 The materials named may be varied as may be found desirable. There is no
 novelty in the pump and upper portion of the injecting tube, but the novelty
 of the Invention consists in the application of the lower flanged portion of the 15
 tube to the flexible bag as described, whereby a specified and definite quantity
 of fluid may be injected as required.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed
 by the said William Robert Barker in the Great Seal Patent Office on
 the 5th April 1866. 20

**TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM
 ROBERT BARKER, of New Bond Street, in the County of Middlesex, send
 greeting.**

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters
 Patent, bearing date the Fifth day of October, in the year of our Lord 25
 One thousand eight hundred and sixty-five, in the twenty-ninth year of Her
 reign, did, for Herself, Her heirs and successors, give and grant unto me, the
 said William Robert Barker, Her special licence that I, the said William
 Robert Barker, my executors, administrators, and assigns, or such others
 as I, the said William Robert Barker, my executors, administrators, and 30
 assigns, should at any time agree with, and no others, from time to time and
 at all times thereafter during the term therein expressed, should and lawfully
 might make, use, exercise, and vend, within the United Kingdom of Great
 Britain and Ireland, the Channel Islands, and Isle of Man, an Invention
 for "IMPROVEMENTS IN APPARATUS FOR ADMINISTERING INJECTIONS AND DOUCHES 35
 TO THE HUMAN BODY," upon the condition (amongst others) that I, the said

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William Robert Barker, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said William Robert Barker, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This Invention relates to improvements in the construction of portable apparatus for the purpose of administering injections, enemas, and douches to various parts of the human body. The apparatus consists of a flexible tube of india-rubber or other suitable material, having an ivory or bone or elastic injecting or inserting tube at its extremity. The flexible tube is provided at a convenient distance from the injecting piece with a pump composed of an india-rubber receptacle fitted to the flexible tube by means of metal flanges, within which non-return or clack valves are set. Towards the other end of the tube a nozzle is attached, having a milled-edged flange to enable the operator to turn it; below this flange is a hollow stopper having a projection or clutch on its periphery, below which the tube continues and is terminated by a hollow metallic inlet tube. The last portion of the flexible tube, flange, and stopper is to be applied to a flexible waterproof bag containing the liquid to be used as an injection, enema, or douche. This bag is provided at the mouth with a metallic neck, into which the stopper fits, the tube descending to the bottom of the bag. The metallic neck has a horizontal slot or groove cut therein for the projecting clutch to turn in, and so secure the tube to the bag, when by compressing the pump with the hand the operator is enabled to draw the liquid from the bag and force it through the bone or other injecting tube to the body of the patient. The materials named may be varied as may be found desirable. There is no novelty in the pump and upper portion of the injecting tube, but the novelty of the Invention consists in the application of the lower flanged portion of the tube to the flexible bag as described, whereby a specified and definite quantity of fluid may be injected as required.

The Drawing annexed, Fig. 1, represents the apparatus ready for use; *a* is the injecting or inserting tube attached to the end of the flexible tube *b*, which communicates with the india-rubber syringe or pump *c*; the bottom of the syringe is attached to a milled-edged nozzle *d*, which is passed into the metallic

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neck *e* of the reservoir *f*, is fastened therein by means of a projection on the nozzle turning in a slot in the neck after the manner of a bayonet fastening. At the end of the nozzle a flexible tube *g*, shewn in dotted lines, is fixed and passes down to the bottom of the flexible reservoir. This apparatus offers many advantages over all those in general employment, not only as regards 5 portability, but in efficiency of action and the greatest possible convenience in use. The quantity of fluid required for an ordinary injection can be contained in the flexible bag, but should a larger amount be desired, the use of the reservoir may be dispensed with, the india-rubber entrance tube being placed in the vessel of liquid. The amount of liquid employed can be varied 10 to any extent at pleasure. The apparatus is equally applicable for the administration of enemata and vaginal injections.

For domestic use it is peculiarly adapted. It occupies but little space, and from its extreme compressibility it may be packed away in a portmanteau or travelling bag, being enclosed in a small waterproof covering resembling a 15 sponge bag, and when the reservoir is filled with fluid it can be carried in the pocket. The apparatus may be fitted with a longer tube such as the accoucheur requires for injection of the womb in cases of flooding after delivery. It is also adapted to india-rubber bags for effecting dilatation of the os uteri; and of course would be equally available for a water pessary or for a bag for 20 plugging the vagina in order to check hæmorrhage before delivery. The apparatus can easily be cleaned by passing a little warm water through it; there is no liability of it getting out of repair, nor are there any joints at which leakage can take place.

Fig. 2 represents the bag or reservoir detached from the tube, pump, or 25 syringe in order that it may be used as an eye douche; *h* is an eye douche cup made of india-rubber or other material attached to the tube, which may be elastic, or of metal or glass, the top of the tube being provided with a rose or perforated dome. The bag may also be used detached as an ear douche, or for syringing the throat, or for an enema. 30

Having now described the nature of my said Invention, and the manner in which the same is to be performed, I would remark in conclusion that I do not limit myself to the precise details and configuration of parts expressed and shewn, nor to the materials of which the apparatus may be made, as the same may obviously be varied or modified without departing from the 35 principle of the Invention. I am aware that the syringe and injecting tube are not new; but what I claim and desire to be secured to me by the herein in part recited Letters Patent is, the application of the bag or reservoir with its internal tube to the pump or syringe and injecting tube, and

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also the use of such bag or reservoir detached from the pump, substantially as and for the various purposes specified.

In witness whereof, I, the said William Robert Barker, have hereunto set my hand and seal, this Fifth day of April, in the year of our Lord
5 One thousand eight hundred and sixty-six.

W. R. BARKER. (L.S.)

Witness,

ALEX. PRINCE,

Office for Patents,

10 4, Trafalgar Square,

Charing Cross.

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FIG. 1.

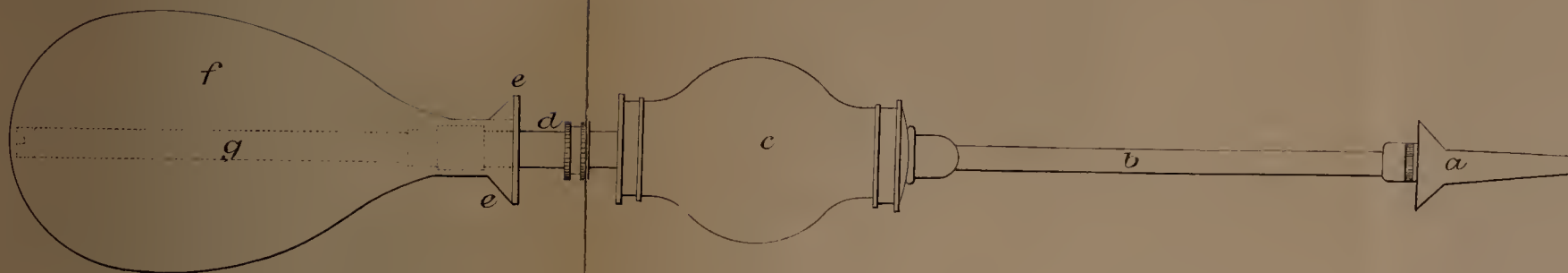
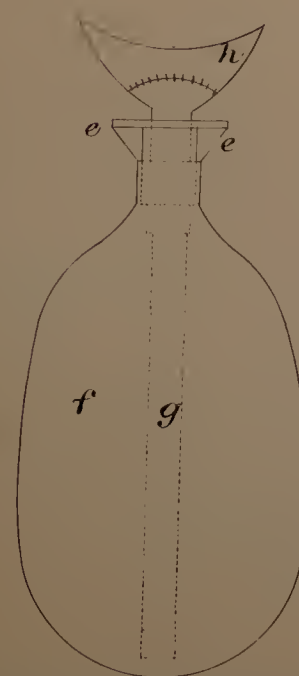


FIG. 2.



The filed drawing is not colored.

Drawn on Stone by Malby & Sons

